



Online ISU Algebra Seminar

Date and Time: October 21, 2021, from 1:00 pm to 1:50 pm

Speaker: Jordan Disch (Iowa State University)

Title: Generic Gelfand-Tsetlin Representations of Nonstandard Quantized Orthogonal Algebras

Abstract: We construct infinite-dimensional analogs of classical representations of the nonstandard quantized enveloping algebra $U_q(\mathfrak{so}_n)$ by rationalizing the classical formulas from finite-dimensional representations. These also provide representations for the universal enveloping algebra $U(\mathfrak{so}_n)$ as q approaches 1. We use these new representations to embed $U_q(\mathfrak{so}_n)$ into a skew group algebra of shift operators.

About Speaker: Jordan Disch is a Ph.D. candidate at Iowa State University. His research interests are in representation theory of Lie algebras and their deformations, Gelfand-Tsetlin Theory and q -Quantum groups.

Zoom Meeting Information

Join Zoom Meeting

<https://illinoisstate.zoom.us/j/92061653023?pwd=Uno4Y1JONmdQS3VodTIra3R6ZVI2UT09>

Meeting ID: 920 6165 3023

Passcode: isumath